



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
MC 61-53
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

TO: Interested Parties / Applicant
DATE: February 19, 2008
RE: Girtz Industries, Inc. / 181-24421-00038
FROM: Matthew Stuckey, Deputy Branch Chief
Permits Branch
Office of Air Quality

Notice of Decision: Approval - Registration

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 4-21.5-3-4(d) this order is effective when it is served. When served by U.S. mail, the order is effective three (3) calendar days from the mailing of this notice pursuant to IC 4-21.5-3-2(e).

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FN-REGIS.dot 1/2/08



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
(317) 232-8603
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February 19, 2008

Mr. Mike Keever
Girtz Industries, Inc.
5262 N. East Shafer Drive
Monticello, IN 47960

Re: Registration Revision No. R181-24421-00038
Registered Construction and Operation Status

Dear Mr. Keever:

Based on the data submitted and the provisions in 326 IAC 2-5.5, it has been determined that the following stationary painting and open sandblasting plant, located at 5262 N. East Shafer Drive, Monticello, IN 47960, is classified as registered:

- (a) One (1) paint booth with a maximum capacity of 117 metal containers per month and 50 exhaust diverters per year, controlled with a corrugated paper filter which exhausts to stack #1 with a maximum flow rate of 30,000 acfm.
- (b) One (1) abrasive blasting operation with a maximum abrasive flow rate of 290 lb/hr and a nozzle pressure of 95 psig.
- (c) One (1) natural gas fired drying oven with a maximum heat input capacity of 2.0 MMBtu per hour.
- (d) One (1) natural gas fired controlled pyrolysis cleaning furnace with a maximum heat input capacity of 0.5 MMBtu per hour and a maximum of 80 pounds of dried coatings per hour.
- (e) One (1) diesel generator quality assurance testing operation, constructed in 2007, with a maximum capacity of 30 test runs per month at 1 hour per test run consisting of the following:
 - (1) One (1) compression ignition diesel generator set, rated at a maximum output of 3,339 horsepower, and exhausting to the outdoors.

The following conditions shall be applicable:

1. 326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A,

Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

2. 326 IAC 6-4 (Fugitive Dust Emissions Limitations)

Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.

3. 326 IAC 6-3-2 (Particulate Emission Limitation for Manufacturing Processes)

(a) Pursuant to 181-8591-00038, issued on June 12, 1997, the particulate matter (PM) from the abrasive blasting operation shall be limited to 2.4 pounds per hour.

(b) Particulate from the one paint booth, shall be controlled by dry filters, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:

(i) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

(ii) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

4. 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations)

(a) Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of coating delivered to the applicator at the spray booth shall be limited to 3.5 pounds of VOCs per gallon of coating less water, for forced warm air dried coatings.

(b) Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

5. 326 IAC 4-2-2 (Incinerators)

Pursuant to 326 IAC 4-2, the pyrolysis cleaning furnace shall:

(a) Consist of primary and secondary chambers or the equivalent;

(b) Be equipped with a primary burner unless burning wood products;

(c) Comply with 326 IAC 5-1 and 326 IAC 2;

(d) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in 326 IAC 4-2-2(c); and

- (e) Not emit particulate matter in excess of one (1) of the following:
 - (i) Three-tenths (0.3) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions correct to fifty percent (50%) excess air for incinerators with solid waste capacity of greater than or equal to two hundred (200) pounds per hour.
 - (ii) Five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air for incinerators with solid waste capacity of less than two hundred (200) pounds per hour.
- (f) If any requirements of 326 IAC 4-2-2(a)(1) through 326 IAC 4-2-2(a)(5) above are not met, the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.

6. 326 IAC 9-1-2 (Carbon Monoxide Emission Limits)

Pursuant to 326 IAC 9-1-2 (Carbon Monoxide Emission Limits), the Permittee shall not operate the pyrolysis cleaning furnace unless the waste gas stream is burned in on the following:

- (a) Direct-flame afterburner; or
- (b) Secondary chamber.

This source remains a registered source. The source may operate according to 326 IAC 2-5.5.

An authorized individual shall provide an annual notice to the Office of Air Quality that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.5-4(a)(3). The annual notice shall be submitted to:

**Compliance Data Section
Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, IN 46204-2251**

no later than March 1 of each year, with the annual notice being submitted in the format attached.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

Original document signed by

Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

IC/BMW

cc: File - White County
White County Health Department
Air Compliance Section
Permit Tracking

Compliance Data Section
Permits Administrative and Development
Billing, Licensing and Training Section

Registration Annual Notification

This form should be used to comply with the notification requirements under 326 IAC 2-5.5-4(a)(3)

Company Name:	Girtz Industries, Inc.
Address:	5262 N. East Shafer Drive, Monticello, IN 47960
Phone #:	574-278-7510
Registration #:	181-24421-00038

Certification by the Authorized Individual
I hereby certify that Girtz Industries, Inc. is still in operation and is in compliance with the requirements of Registration R181-24421-00038.
Name (typed):
Title:
Signature:
Phone Number:
Date:

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Registration Revision

Source Description and Location

Source Name:	Girtz Industries, Inc.
Source Location:	5262 N. East Shafer Drive, Monticello, IN 47960
County:	White
SIC Code:	3444
Registration No.:	181-13600-00038
Registration Issuance Date:	January 16, 2002
Registration Revision No.:	181-24421-00038
Permit Reviewer:	Brian Williams

On March 7, 2007, the Office of Air Quality (OAQ) has received an application from Girtz Industries, Inc. related to a modification to an existing painting and open sandblasting plant.

Existing Approvals

The source was issued Registration No. 181-13600-00038 on January 16, 2002. The source has since received the following approvals:

- (a) First Notice-Only Change No. 181-15539-00038, issued on March 14, 2002; and
- (b) Second Notice-Only Change No. 181-17458-00038, issued on August 21, 2003.

County Attainment Status

The source is located in White County.

Pollutant	Status
PM10	attainment
PM2.5	attainment
SO ₂	attainment
NO ₂	attainment
8-hour Ozone	attainment
CO	attainment
Lead	attainment

- (a) Ozone Standards
 - (1) On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.
 - (2) On September 6, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Allen, Clark, Elkhart, Floyd, LaPorte, St. Joseph as attainment for the 8-hour ozone standard.
 - (3) On November 9, 2007, the Indiana Air Pollution Control Board finalized a temporary emergency rule to re-designate Boone, Clark, Elkhart, Floyd, LaPorte, Hamilton, Hancock,

Hendricks, Johnson, Madison, Marion, Morgan, Shelby, and St. Joseph as attainment for the 8-hour ozone standard.

- (4) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. White County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM2.5**
 White County has been classified as attainment for PM2.5. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM2.5 emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for PM2.5 emissions, it has directed states to regulate PM10 emissions as a surrogate for PM2.5 emissions.
- (c) **Other Criteria Pollutants**
 White County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

- (a) The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.

Status of the Existing Source

- (a) The table below summarizes the potential to emit of the entire source, prior to the proposed revision, after consideration of all enforceable limits established in the effective permits:

Process/Emission Unit	Potential To Emit of the Entire Source (tons/year)							
	PM	PM10	SO ₂	NOx	VOC	CO	Total HAPs	Worst Single HAP
Paint Booth	6.78	6.78	0.0	0.0	20.26	0.0	1.12	negl.
Abrasive Blasting	12.7	12.7	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas Combustion (Drying Oven and Pyrolysis Cleaning Furnace)	0.021	0.083	0.007	1.095	0.060	0.92	0.021	negl.
Total PTE of Entire Source	19.50	19.56	0.007	1.095	20.32	0.92	1.14	negl.

negl. = negligible
 These emissions are based upon Registration No. 181-13600-00038 on January 16, 2002 and Second Notice-Only Change No. 181-17458-00038, issued on August 21, 2003.

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by Girtz Industries, Inc. on March 7, 2007, requesting to allow the source to test Caterpillar diesel generator sets.

The following is a list of the unpermitted emission unit(s):

- (e) One (1) diesel generator quality assurance testing operation, constructed in 2007, with a maximum capacity of 30 test runs per month at 1 hour per test run consisting of the following:
 - (1) One (1) compression ignition diesel generator set, rated at a maximum output of 3,339 horsepower, and exhausting to the outdoors.

Enforcement Issues

IDEM is aware that equipment has been constructed and operated prior to receipt of the proper permit. IDEM is reviewing this matter and will take the appropriate action. This proposed approval is intended to satisfy the requirements of the construction permit rules.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – Registration Revision

The following table is used to determine the appropriate permit level under 326 IAC 2-5.5-6. This table reflects the PTE before controls.

Process/Emission Unit	PTE of Proposed Revision (tons/year)							
	PM	PM10*	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Generator Testing	0.43	0.00	2.47	14.68	0.43	3.37	0.00	0.00
Total PTE of Proposed Revision	0.43	0.00	2.47	14.68	0.43	3.37	0.00	0.00

negl. = negligible
 * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.

- (a) This Registration is being revised through a Registration Revision pursuant to 326 IAC 2-5.5.6(g), because the revision involves the construction of an emission unit with potential to emit (PTE) NO_x greater than the thresholds in 326 IAC 2-5.5.6(d)(10) and 326 IAC 2-5.5.6(d)(12).

PTE of the Entire Source After Issuance of the Registration Revision

- (a) The table below summarizes the potential to emit of the entire source, with updated emissions shown as **bold** values and previous emissions shown as ~~strikethrough~~ values.

Process/Emission Unit	Potential To Emit of the Entire Source to accommodate the Proposed Revision (tons/year)							
	PM	PM10*	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Paint Booth	6.78	6.78	0.0	0.0	20.26	0.0	1.12	negl.
Abrasive Blasting	12.7	12.7	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas Combustion (Drying Oven and Pyrolysis Cleaning Furnace)	0.021	0.083	0.007	1.095	0.060	0.92	0.021	negl.

Process/Emission Unit	Potential To Emit of the Entire Source to accommodate the Proposed Revision (tons/year)							
	PM	PM10*	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Generator Testing	0.43	0.00	2.47	14.68	0.43	3.37	0.00	0.00
Pyrolysis Cleaning Furnace (Incineration)	1.23	1.23	0.44	0.53	0.53	1.75	0.00	0.00
Total PTE of Entire Source	19.50 21.16	19.56 20.79	0.007 2.92	1.095 16.30	20.32 21.28	0.92 6.04	1.14	negl.

negl. = negligible
 * US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.

(b) The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. (Note: the table below was generated from the above table, with bold text un-bolded and strikethrough text deleted)

Process/Emission Unit	Potential To Emit of the Entire Source After Issuance of Revision (tons/year)							
	PM	PM10*	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Paint Booth	6.78	6.78	0.0	0.0	20.26	0.0	1.12	negl.
Abrasive Blasting	12.7	12.7	0.0	0.0	0.0	0.0	0.0	0.0
Natural Gas Combustion (Drying Oven and Pyrolysis Cleaning Furnace)	0.021	0.083	0.007	1.095	0.060	0.92	0.021	negl.
Generator Testing	0.43	0.0	2.47	14.68	0.43	3.37	0.00	0.00
Pyrolysis Cleaning Furnace (Incineration)	1.23	1.23	0.44	0.53	0.53	1.75	0.00	0.00
Total PTE of Entire Source	21.16	20.79	2.92	16.30	21.28	6.04	1.14	negl.

negl. = negligible
 * US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.

(a) This revision will not change the registration status of the source, because the uncontrolled/unlimited potential to emit of PM, PM10, NO_x, and VOC from the entire source will still be within the ranges listed in 326 IAC 2-5.5-1(b)(1) and the PTE of all other regulated criteria pollutants will still be less than the ranges listed in 326 IAC 2-5.5-1(b)(1). Therefore, the source will still be subject to the provisions of 326 IAC 2-5.5 (Registrations).

(b) This revision will not change the minor status of the source, because the uncontrolled/unlimited potential to emit of any single HAP will still be less than ten (10) tons per year and the PTE of a combination of HAPs will still be less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.

Federal Rule Applicability Determination

The federal rule applicability for this revision is as follows:

New Source Performance Standards (NSPS)

- (a) The requirements of the New Source Performance Standard 40 CFR Part 60, Subpart E, Standards of Performance for Incinerators (326 IAC 12) is not applicable for the one (1) pyrolysis cleaning furnace because it has a charging rate less than 50 tons per day and does not burn refuse consisting of more than 50 percent municipal type waste (household, commercial/retail, and/or institutional waste).
- (b) The requirements of the following New Source Performance Standards (NSPS) are not included in the permit, because the pyrolysis cleaning furnace is not considered a municipal waste combustor or hospital/medical/infectious waste incinerator:
 - (1) 40 CFR 60, Subpart Ea, Standards of Performance for Municipal Waste Combustors for Which Construction is Commenced After December 20, 1989 and on or Before September 20, 1994 (326 IAC 12).
 - (2) 40 CFR 60, Subpart Eb, Standards of Performance for Large Municipal Waste Combustors for Which Construction is Commenced After September 20, 1994 or for Which Modification or Reconstruction is Commenced After June 19, 1996 (326 IAC 12).
 - (3) 40 CFR 60, Subpart Ec, Standards of Performance for Hospital/Medical/Infectious Waste Incinerators for Which Construction is Commenced After June 20, 1996 (326 IAC 12).
 - (4) 40 CFR 60, Subpart AAAA, Standards of Performance for Small Municipal Waste Combustion Units for Which Construction is Commenced After August 30, 1999 or for Which Modification or Reconstruction is Commenced After June 6, 2001 (326 IAC 12).
 - (5) 40 CFR 60, Subpart BBBB, Emission Guidelines and Compliance Times for Small Municipal Waste Combustion Units Constructed on or Before August 30, 1999 (326 IAC 12).
- (c) The one (1) pyrolysis cleaning furnace, constructed in 2003, is exempt from the requirements of the New Source Performance Standard, 40 CFR Part 60, Subpart CCCC, Standards of Performance for Commercial and Industrial Solid Waste Incineration Units for Which Construction Is Commenced After November 30, 1999 or for Which Modification or Reconstruction Is Commenced on or After June 1, 2001 (326 IAC 12), because pursuant to 40 CFR 60.2020(k) it is considered a parts reclamation unit.
- (d) The requirements of the New Source Performance Standard for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII (326 IAC 12), are not included for this proposed revision, since this source is not a manufacturer, owner, or operator of stationary compression ignition internal combustion engines.
- (e) There are no New Source Performance Standards (NSPS)(40 CFR Part 60) included for this proposed revision.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (f) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6585, Subpart ZZZZ (326

IAC 20-82), are not included for this proposed revision, since this source has the potential to emit less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.

- (g) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Engine Test Cell/Standards, 40 CFR 63.9285, Subpart P P P P P (326 IAC 20-75), are not included for this proposed revision, since this source has the potential to emit less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.
- (h) The requirements of the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 63, Subpart EEE (National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors) (326 IAC 20-28) are not included in the permit for the pyrolysis cleaning furnace because it does not meet the definition of a hazardous waste incinerator and the source is not a major source for HAPs.
- (i) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included for this proposed revision.

Compliance Assurance Monitoring (CAM)

- (j) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the potential to emit of the source is limited to less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

State Rule Applicability Determination

The following state rules are applicable to the proposed revision:

- (a) 326 IAC 2-5.5 (Registrations)
Registration applicability is discussed under the Permit Level Determination – Registration section above.
- (b) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The proposed revision is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the new unit is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.
- (c) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (d) 326 IAC 5-1 (Opacity Limitations)
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
 - (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

- (e) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.

Surface Coating

- (e) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Particulate from the one paint booth, shall be controlled by dry filters, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:

- (a) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.
- (b) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.

If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

Diesel Generator Quality Assurance Testing Operation

- (f) 326 IAC 6-2 (Particulate Emission Limitations for Sources of Indirect Heating)
The diesel generator set is not subject to 326 IAC 6-2, since it is not a source of indirect heating.
- (g) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)
The diesel generator set is exempt from the requirements of 326 IAC 6-3, because, pursuant to 326 IAC 1-2-59, liquid and gaseous fuels and combustion air are not considered as part of the process weight.
- (h) 326 IAC 7-1.1-1 (Sulfur Dioxide Emission Limitations)
This source is not subject to 326 IAC 7-1.1-1 (Sulfur Dioxide Emission Limitations) because the potential to emit sulfur dioxide from the diesel generator set is less than twenty-five (25) tons per year and ten (10) pounds per hour.
- (i) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
The proposed revision is not subject to the requirements of 326 IAC 8-1-6, since the potential VOC emissions from the diesel generator set is less than twenty-five (25) tons per year.
- (j) There are no other 326 IAC 8 Rules that are applicable to the diesel generator set.
- (k) 326 IAC 9-1-1 (Carbon Monoxide Emission Limits)
The diesel generator set is not subject to 326 IAC 9-1-1 (Carbon Monoxide Emission Limits) because there is no applicable emission limit for the source under 326 IAC 9-1-2.
- (l) 326 IAC 10-1-1 (Nitrogen Oxides Control)
The diesel generator set is not subject to 326 IAC 10-1-1 (Nitrogen Oxides Control) because the source is not located in Clark or Floyd counties.

- (m) 326 IAC 10-5-1 (Nitrogen Oxide Reduction Program for Internal Combustion Engines (ICE))
The diesel generator set is not subject to 326 IAC 10-5-1 (Nitrogen Oxide Reduction Program for Internal Combustion Engines (ICE)) because it is not large NOx SIP Call engines, as defined in 326 IAC 10-5-2(4).
- (n) 326 IAC 12 (New Source Performance Standards)
See Federal Rule Applicability Section of this TSD.
- (o) 326 IAC 20 (Hazardous Air Pollutants)
See Federal Rule Applicability Section of this TSD.

Pyrolysis Cleaning Furnace

- (p) 326 IAC 4-2-2 (Incinerators)
The natural gas fired controlled pyrolysis cleaning furnace is subject to the requirements of 326 IAC 4-2-1 because it meets the definition of an incinerator provided in 326 IAC 1-2-34 and is not subject to any of the rules identified in 326 IAC 4-2-1(b)(2).

Pursuant to 326 IAC 4-2, the pyrolysis cleaning furnace shall:

- (1) Consist of primary and secondary chambers or the equivalent;
 - (2) Be equipped with a primary burner unless burning wood products;
 - (3) Comply with 326 IAC 5-1 and 326 IAC 2;
 - (4) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in 326 IAC 4-2-2(c); and
 - (5) Not emit particulate matter in excess of one (1) of the following:
 - (A) Three-tenths (0.3) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions correct to fifty percent (50%) excess air for incinerators with solid waste capacity of greater than or equal to two hundred (200) pounds per hour.
 - (B) Five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air for incinerators with solid waste capacity of less than two hundred (200) pounds per hour.
 - (6) If any requirements of 326 IAC 4-2-2(a)(1) through 326 IAC 4-2-2(a)(5) above are not met, the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.
- (q) 326 IAC 9-1-2 (Carbon Monoxide Emission Limits)
The natural gas fired controlled pyrolysis cleaning furnace is subject to 326 IAC 9-1-2 (Carbon Monoxide Emission Limits) because this unit is a stationary source of carbon monoxide constructed after March 21, 1972 and subject to the requirements of 326 IAC 9-1-2(a)(3).

Pursuant to 326 IAC 9-1-2 (Carbon Monoxide Emission Limits), the Permittee shall not operate the pyrolysis cleaning furnace unless the waste gas stream is burned in one of the following:

- (1) Direct-flame afterburner; or
- (2) Secondary chamber.

Proposed Changes

- (a) The following changes listed below are due to the proposed revision. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:
- (1) The emission unit descriptions have been revised as follows:
 - (d) One (1) natural gas fired controlled pyrolysis cleaning furnace with a maximum heat input capacity of 0.5 MMBtu per hour **and a maximum of 80 pounds of dried coatings per hour.**
 - (e) **One (1) diesel generator quality assurance testing operation, constructed in 2007, with a maximum capacity of 30 test runs per month at 1 hour per test run consisting of the following:**
 - (1) **One (1) compression ignition diesel generator set, rated at a maximum output of 3,339 horsepower, and exhausting to the outdoors.**
- (b) Upon further review, IDEM, OAQ has decided to make the following changes to the permit. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:
- (1) IDEM has begun implementing a new procedure and will no longer list the name or title of the Authorized Individual (AI) in registrations. The registration is revised as follows:

~~Authorized Individual: Safety Coordinator~~
 - (2) All occurrences of IDEM's mailing addresses have been updated in the permit. Any occurrences of P.O. Box 6015 in the permit have been removed, any occurrences of the zip code 46206-6015 or 46204 have been revised to **46204-2251**, and all addresses have been revised to include a mail code (MC) as follows:

Asbestos Section: **MC 61-52 IGCN 1003**
Compliance Branch: **MC 61-53 IGCN 1003**
Permits Branch: **MC 61-53 IGCN 1003**
Technical Support and Modeling Section: **MC 61-50 IGCN 1003**
 - (3) The source is now subject to 326 IAC 6-4 (Fugitive Dust Emissions Limitations). The registration is revised as follows:

2. 326 IAC 6-4 (Fugitive Dust Emissions Limitations)

Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.
 - (4) The existing 326 IAC 6-3-2 (Particulate Emission Limitation for Manufacturing Processes) condition for the spray paint booth is no longer applicable. The spray paint booth is now subject to the requirements of 326 IAC 6-3-2(d). Additionally, Condition 2 (326 IAC 6-3-2 Particulate Emission Limitation for Manufacturing Processes) for the existing abrasive blasting operation has been renumbered. The registration is revised as follows:

~~2. 326 IAC 6-3-2 (Particulate Emission Limitation for Manufacturing Processes)~~

~~Pursuant to 181-8591-00038, issued on June 12, 1997, the particulate matter (PM) from the abrasive blasting operation shall be limited to 2.4 pounds per hour.~~

- ~~3. Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitation for Manufacturing Processes) the particulate matter (PM) from the spray paint booth shall be limited by the following equation:~~

~~Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:~~

~~$E = 4.10 P^{0.67}$ where E = rate of emission in pounds per hour and P = process weight rate in tons per hour~~

~~The dry filter shall be in operation at all times the paint booth is in operation, in order to comply with this limit.~~

- 3. 326 IAC 6-3-2 (Particulate Emission Limitation for Manufacturing Processes)**
- (a) Pursuant to 181-8591-00038, issued on June 12, 1997, the particulate matter (PM) from the abrasive blasting operation shall be limited to 2.4 pounds per hour.**
- (b) Particulate from the one paint booth, shall be controlled by dry filters, and the Permittee shall operate the control device in accordance with manufacturer's specifications.**

If overspray is visibly detected at the exhaust or accumulates on the ground, the Permittee shall inspect the control device and do either of the following no later than four (4) hours after such observation:

- (i) Repair control device so that no overspray is visibly detectable at the exhaust or accumulates on the ground.**
- (ii) Operate equipment so that no overspray is visibly detectable at the exhaust or accumulates on the ground.**

If overspray is visibly detected, the Permittee shall maintain a record of the action taken as a result of the inspection, any repairs of the control device, or change in operations, so that overspray is not visibly detected at the exhaust or accumulates on the ground. These records must be maintained for five (5) years.

- (5) The following conditions have been removed from the registration:**

~~4. In order to maintain Registration status, the source must maintain records of the surface coating and solvent used and the VOC and HAP content. The volatile organic compound emissions from the spray paint booth shall not exceed 25 tons per year and the hazardous air pollutant from the spray paint booth shall not exceed ten (10) tons per year or 25 tpy of any combination of HAPs.~~

~~5. Pursuant to 326 IAC 2-5.5-1, the potential to emit of all hazardous air pollutants combined from the spray paint booth shall not exceed twenty-five (25) tons per year.~~

64. Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) content of coating delivered to the applicator at the

spray booth shall be limited to 3.5 pounds of VOCs per gallon of coating less water, for forced warm air dried coatings.

Solvent sprayed from application equipment during cleanup or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

- (6) The pyrolysis cleaning furnace meets the definition of an incinerator provided in 326 IAC 1-2-34; therefore, it is now subject to the following conditions:

5. 326 IAC 4-2-2 (Incinerators)

Pursuant to 326 IAC 4-2, the pyrolysis cleaning furnace shall:

- (a) Consist of primary and secondary chambers or the equivalent;**
- (b) Be equipped with a primary burner unless burning wood products;**
- (c) Comply with 326 IAC 5-1 and 326 IAC 2;**
- (d) Be maintained, operated, and burn waste in accordance with the manufacturer's specifications or an operation and maintenance plan as specified in 326 IAC 4-2-2(c); and**
- (e) Not emit particulate matter in excess of one (1) of the following:**
 - (i) Three-tenths (0.3) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions correct to fifty percent (50%) excess air for incinerators with solid waste capacity of greater than or equal to two hundred (200) pounds per hour.**
 - (ii) Five-tenths (0.5) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas under standard conditions corrected to fifty percent (50%) excess air for incinerators with solid waste capacity of less than two hundred (200) pounds per hour.**
- (f) If any requirements of 326 IAC 4-2-2(a)(1) through 326 IAC 4-2-2(a)(5) above are not met, the Permittee shall stop charging the incinerator until adjustments are made that address the underlying cause of the deviation.**

6. 326 IAC 9-1-2 (Carbon Monoxide Emission Limits)

Pursuant to 326 IAC 9-1-2 (Carbon Monoxide Emission Limits), the Permittee shall not operate the pyrolysis cleaning furnace unless the waste gas stream is burned in on the following:

- (a) Direct-flame afterburner; or**
- (b) Secondary chamber.**

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on March 7, 2007.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed Registration Revision No. 181-24421-00038. The staff recommends to the Commissioner that this Registration Revision be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Brian Williams at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5375 or toll free at 1-800-451-6027 extension 4-5375.
- (b) A copy of the findings is available on the Internet at: www.in.gov/idem/permits/air/pending.html.
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.in.gov/idem/permits/guide/.

**Appendix A: Emission Calculations
Pyrolysis Cleaning Furnace**

Company Name: Girtz Industries, Inc.
Address City IN Zip: 5262 N. East Shafer Drive, Monticello, IN 47960
Permit Number: 181-24421-00038
Reviewer: Brian Williams

THROUGHPUT lbs/hr 80

THROUGHPUT ton/yr 350.4

	POLLUTANT				
	PM	SO2	CO	VOC	NOX
Emission Factor in lb/ton	7.0	2.5	10.0	3.0	3.0
Potential Emissions in ton/yr	1.23	0.44	1.75	0.53	0.53

Methodology

Emission factors are from AP 42 (5th Edition 1/95) Table 2.1-12, Uncontrolled emission factors for industrial/commercial refuse combustors, multiple chambers

Throughput (lb/hr) * 8760 hr/yr * ton/2000 lb = throughput (ton/yr)

**Appendix A: Emission Calculations
Summary of Emissions**

Company Name: Girtz Industries, Inc.
Address City IN Zip: 5262 N. East Shafer Drive, Monticello, IN 47960
Permit Number: 181-24421-00038
Reviewer: Brian Williams

Unlimited Potential to Emit After Issuance (tons/year)							
Summary	PM	PM10	SO2	NOx	VOC	CO	Total HAPs
Paint Booth	6.78	6.78	0.00	0.00	20.26	0.00	1.12
Abrasive	12.70	12.70	0.00	0.00	0.00	0.00	0.00
Natural Gas Combustion (Drying Oven and Pyrolysis Cleaning Furnace)	0.021	0.083	0.007	1.095	0.060	0.920	0.021
Generator	0.43	0.00	2.47	14.68	0.43	3.37	0.00
Pyrolysis Cleaning Furnace (Incineration)	1.23	1.23	0.44	0.53	0.53	1.75	0.00
Total	21.16	20.79	2.92	16.30	21.28	6.04	1.14